

Title (en)  
OMNI-DIRECTIONAL WHEEL AND OMNI-DIRECTIONAL VEHICLE INCLUDING THE SAME

Title (de)  
OMNIDIREKTIONALES RAD UND OMNIDIREKTIONALES FAHRZEUG DAMIT

Title (fr)  
ROUE OMNIDIRECTIONNELLE ET VÉHICULE OMNIDIRECTIONNEL LA COMPRENANT

Publication  
**EP 2868489 A1 20150506 (EN)**

Application  
**EP 14190505 A 20141027**

Priority  
JP 2013224336 A 20131029

Abstract (en)  
The omni-directional wheel includes first support parts (20) and second support parts (21) which support large-diameter rollers (30) and (31) and small-diameter rollers (40) and (41). Each of the first support parts (20) is disposed at a position where the first support part is held between a pair of the large-diameter rollers (30) and (31), while each of the second support parts (21) is disposed at a position where the second support part is held between a pair of the small-diameter rollers (40) and (41). The large-diameter rollers (30) and (31) and the small-diameter rollers (40) and (41) are disposed such that their outlines are arranged on a single circumference, with a part of the small diameter-side end face of the small-diameter rollers (40, 41) partially inserted in the recessed portions (30c, 31c) of the large-diameter rollers (30, 31).

IPC 8 full level  
**B60B 19/00** (2006.01); **B60B 19/12** (2006.01)

CPC (source: EP US)  
**B60B 19/003** (2013.01 - EP US); **B60B 19/12** (2013.01 - EP US)

Citation (applicant)  
JP 3682248 B2 20050810

Citation (search report)  
• [Y] JP 2008290638 A 20081204 - FUJI MFG CO LTD  
• [A] JP 2001191704 A 20010717 - RIKAGAKU KENKYUSHO  
• [Y] JP 2010006353 A 20100114 - KANTO JIDOSHA KOGYO KK  
• [Y] WO 8603132 A1 19860605 - INT TEXAS IND INC [US]  
• [A] US 2006125309 A1 20060615 - HUANG SHANJUN [CN], et al

Cited by  
GB2574594A; US11273668B2

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JP 2015085750 A 20150507; JP 5778740 B2 20150916; US 2015115694 A1 20150430; US 9242508 B2 20160126

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